



STS-105 Flight Readiness Review August 1, 2001





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• Program Integration - Flight Manager *

• Key Program Considerations

Payload & System Safety

Orbital Debris Status *
 No Issues

Payload In-Flight Anomalies
 No Issues

Launch Commit Criteria *

No Issues

USA Program Integration *

Boeing Integration

Program Anomalies
 No Issues

Waivers to Vol X
 No Issues

System Integration TMR *

Flight Readiness Statement

* Backup Material Included

Vanessa Ellerbe





Key Program Considerations

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- Mission Duration (12+0+2) / Pad Hold (+96 Hrs Margin)
 - DI 122 supports FD3 rendezvous
 - Unscheduled EVA can be supported within 12 day mission
- EVA's from Space Shuttle Airlock
 - Decoupled mission from STS-104 (7A)
- Middeck Stowage Strategy
 - Critical crew rotation hardware is in middeck
 - Ascent manifest finalized
- Return configuration (middeck & MPLM) frozen
 - Changes to the baseline will be issued via CHIT





Payload and System Safety

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- Integrated Experiment Hazards Assessment Complete
- Toxicology Process
 - Verification 1: Complete
 - Verification 2: Standard open work for late load items
- Payload Safety Review Process Is Complete





STS-105 Flight Readiness Statement

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THIS CERTIFIES THAT ALL MISSION REQUIREMENTS HAVE BEEN MET AND SPACE SHUTTLE INTEGRATION IS READY FOR FLIGHT, PENDING COMPLETION OF THE DEFINED OPEN WORK

/s/ Don Noah for	/s/ Anne Sweet for	
L. D. AUSTIN, JR., MANAGER SPACE SHUTTLE SYSTEMS INTEGRATION	M. A. BREKKE, MANAGER SPACE SHUTTLE CUSTOMER AND FLIGHT INTEGRATION	
/s/ Fred R. Hinson	/s/ David O'Brien for	
F. R. HINSON, ACTING ASSOC. PROG. MGR PROGRAM INTEGRATION UNITED SPACE ALLIANCE	A. M. LARSEN, MANAGER PAYLOAD SAFETY	
/s/ Richard N. Richards	/s/ Randy Segert	
R. N. RICHARDS, PROGRAM DIRECTOR SHUTTLE & SPACE STATION INTEGRATION BOEING HUMAN SPACE FLIGHT & EXPLORATION	R. L. SEGERT, MANAGER SPACE SHUTTLE KSC INTEGRATION	
/s/ Vaness	sa Ellerbe	
V. S. ELLERBE, FLIGHT MANAGER SPACE SHUTTLE PROGRAM INTEGRATION		





STS-105 Flight Readiness Review Backup Charts

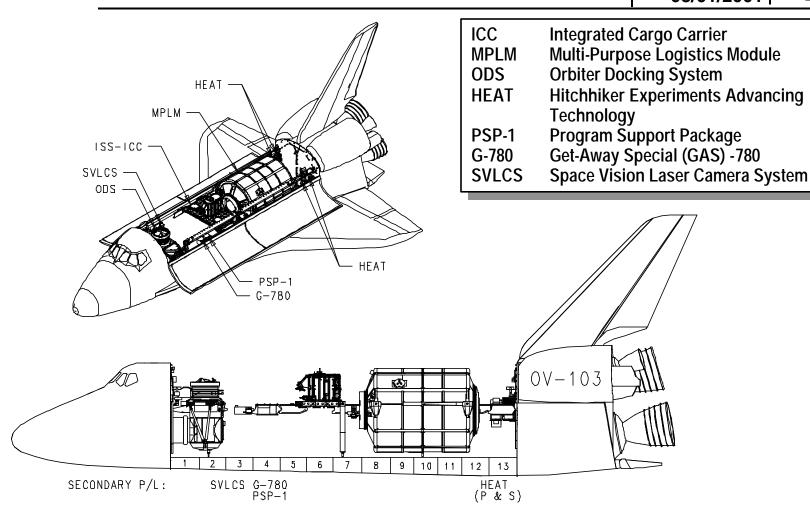




Payload Bay Configuration

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PRIMARY P/L:

OD5

ISS-ICC

MPLM





STS-105 Orbital Debris Status

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• Orbital Debris / Micrometeoroid Risk Is Acceptable

<u>Criteria</u>	<u>Risk</u>	<u>Guideline</u>
Critical Penetration	1 in 680	1 in 200
Radiator Tube Penetration	1 in 183	1 in 61
Window Replacements	33.1%	N/A





Launch Commit Criteria Changes for STS-105

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 STS-105 Minimum Equipment List (MEL) Mission Dependent

USA PROGRAM INTEGRATION FLIGHT PREPARATION PROCESS

Presenter: Bob White

Organization/Date:

Program Integ/07-01-2001

- All the Systems and Cargo Integration flight preparation activities have been completed except for planned open work – no issues identified
- Completed tasks include:
 - Verification of compliance with generically certified requirements
 - Mission specific analyses
 - Documentation of vehicle and cargo requirements
 - Reconfiguration / installation of Payload Integration hardware
 - Payload bay clearance assessment

Program Integration Is Ready to Support Flight







STS-105 NASA System Integration TMR Flight Readiness

Presenter	Lambert Austin	
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- Insight, audit and surveillance requirements complete
- No out-of-family problems have been identified for impact to safety of flight, or planned flight operations
- Approved Program requirements changes have been implemented and verified
 - ICD, OMRS, LCC
 - Vehicle configuration
 - DOSS configuration
 - NSTS 07700, Volume X
 - Joint requirements
- All Joint Shuttle / International Space Station on-orbit Systems Integration analyses have been completed and compatibility verified for STS-105-7A.1 baseline mission
- System Integration is ready for flight pending the completion of remaining open work